38th Annual Meeting, APS Division of Plasma Physics 11-15 November 1996, Denver, CO Abstract Submittal Form

Deadline: Wednesday, 10 July 1996

ct Classification Category	☐ Theory ☐ Experiment
(Refer to the DPP Subject Category list on page M19.)	UCRL-JC-124653 Abs
Measurements of linear regime R	ayleigh-Taylor growth rates in
laser-driven planar targets,* S.C	
B.A. Hammel ^{a)} , D.H. Kalantar ^{a)} ,	M.H. Key ^{b,c)} , J.D. Kilkenny ^{a)} ,
J.P. Knauer ^{d)} , D.M. Penningto	n ^{a)} , B.A. Remington ^{a)} , R.J.
Wallace ^{a)} , S.V. Weber ^{a)} , a)LLNL Appleton Laboratory, UK, c)University Rochester, NY. Rayleigh-Taylor regime have been measured for several laser-driven foils, using time-resolve ablatively accelerated by direct ill	versity of Oxford, UK, d)LLE, (RT) growth rates in the linear veral wavelengths in planar CH ₂ ved radiography. The foils were
Nova laser at 0.53 μm wavelength a	
an acceleration of about 60 μm/	
simulated RT growth rates wer	. · · · ·
compared with classical growth rat Simulations with a one-dimension model indicate that the LASI systematically too high at shorter with under the auspices of the U.S. Lawrence Livermore National Lab W-7405-ENG-48.	nal nonlocal electron transport NEX growth rates may be vavelengths. *Work performed Department of Energy by the
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